

FIG. 1

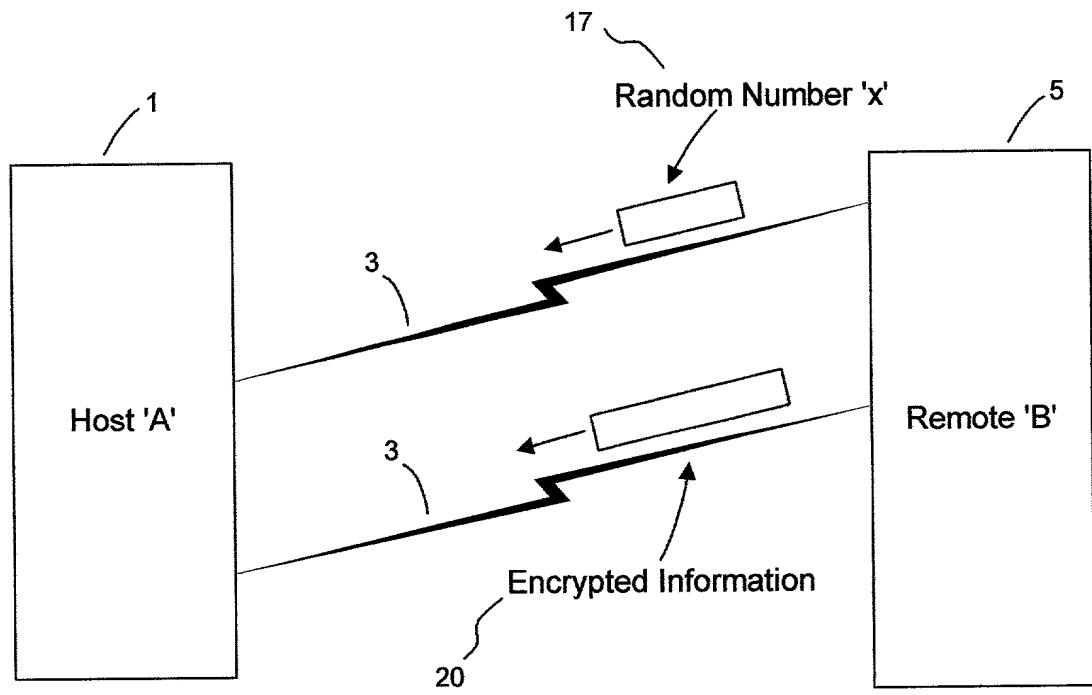


FIG. 2

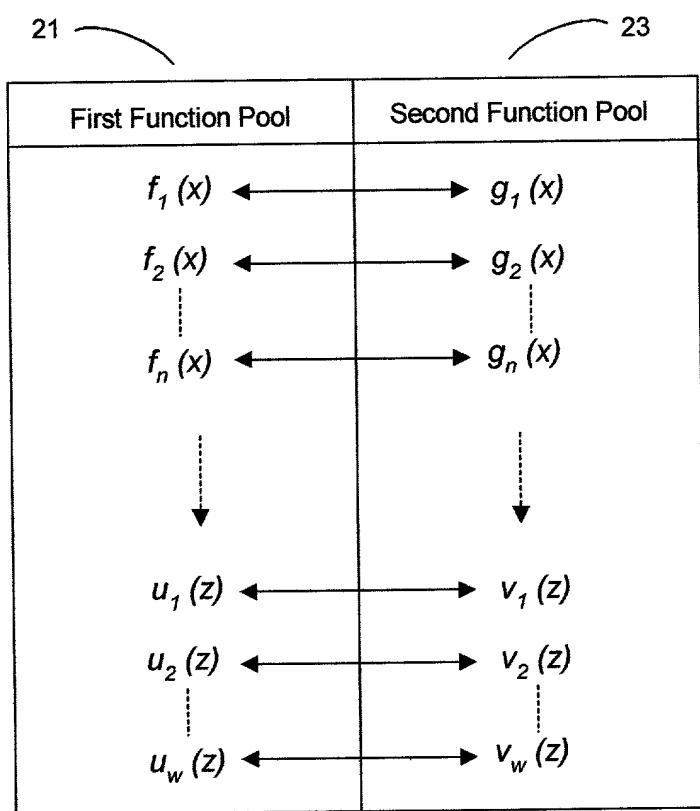


FIG. 3

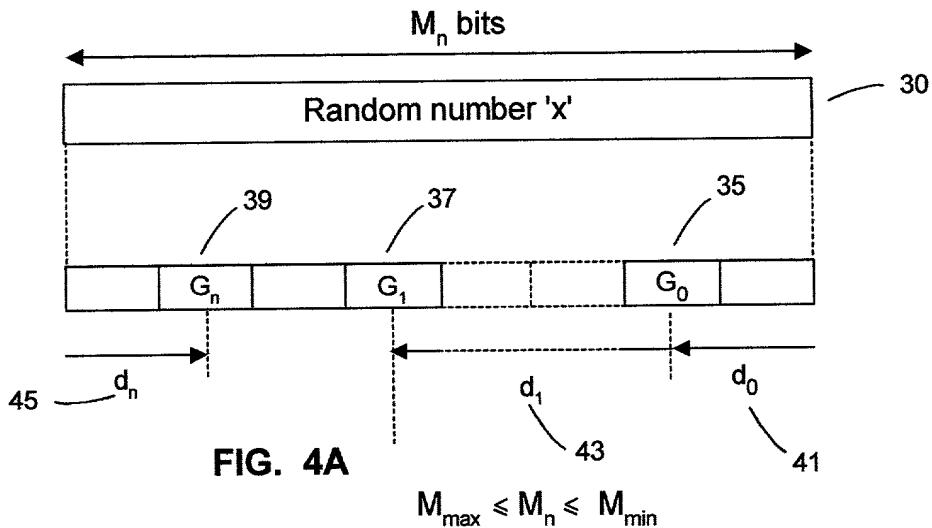


Table for M_n

Binary Group number $G_n \dots G_1 G_0$	Bit number	Bit position
0	$b_0, b_1, b_2, \dots, b_k$	$x_0, x_1, x_2, \dots, x_k$
1	$b_0, b_1, b_2, \dots, b_p$	$y_0, y_1, y_2, \dots, y_p$
m	$b_0, b_1, b_2, \dots, b_q$	$z_0, z_1, z_2, \dots, z_q$

FIG. 4B

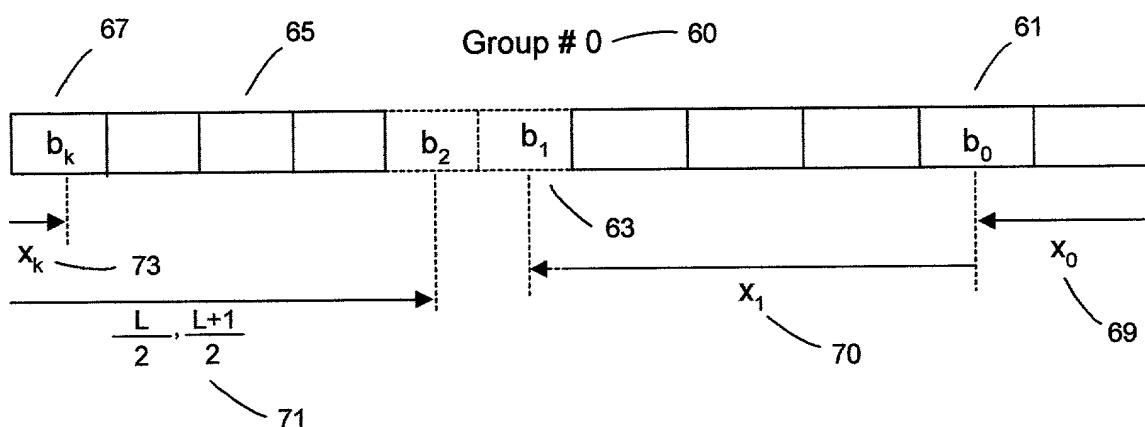


FIG. 5A

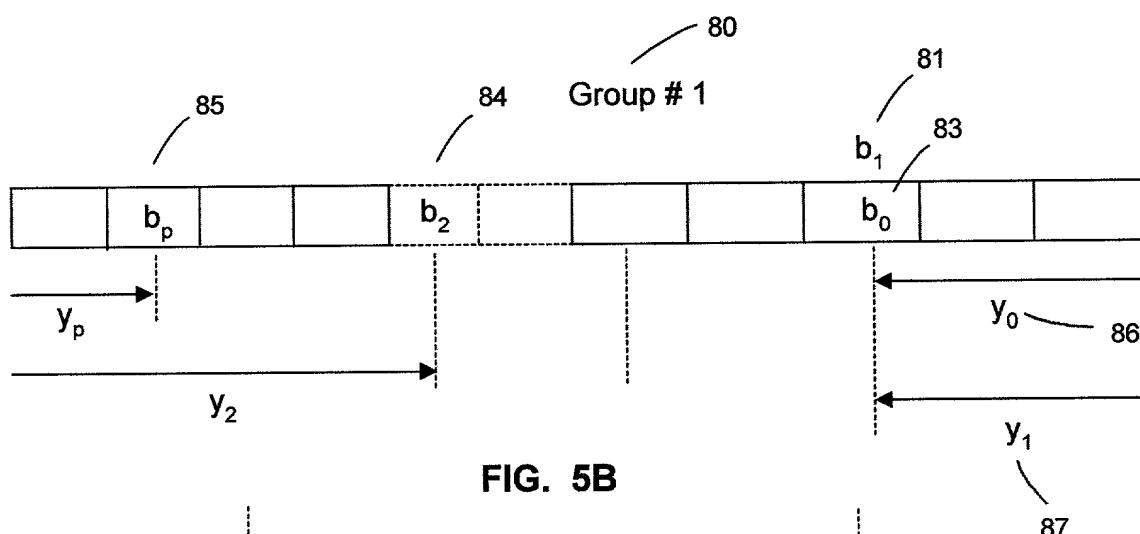


FIG. 5B

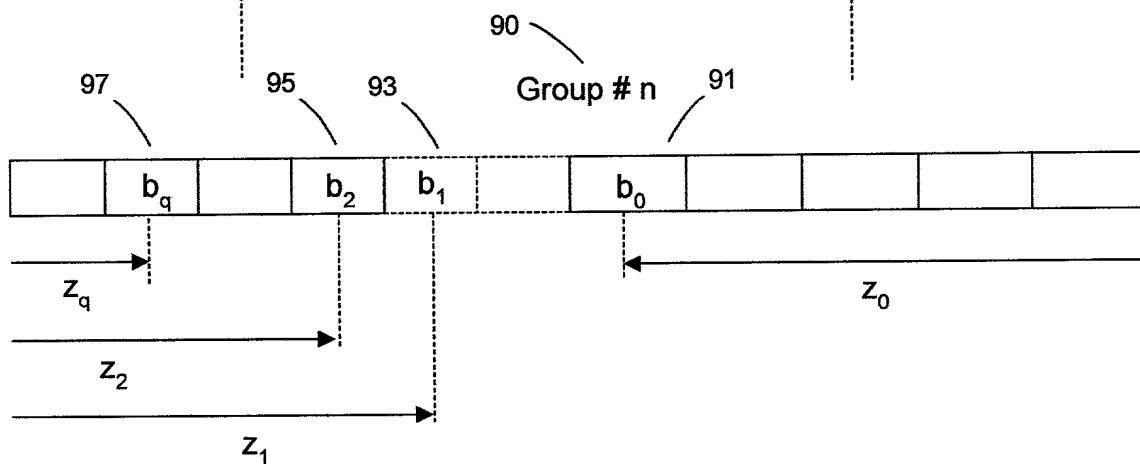


FIG. 5C

The diagram shows a table with two columns. The left column is labeled "Binary value $b_K b_2 b_1 b_0$ ". The right column is labeled "Sequence of Functions performed". There are four rows. The first row has a value of 0 in the left column and a sequence of functions $f_1(x), f_2(x), \dots, f_n(x)$ in the right column. The second row has a value of K in the left column and a sequence of functions $u_1(x), u_2(x), \dots, u_w(x)$ in the right column. The third row has a value of 100 in the top-left corner and a value of 101 in the top-right corner. The fourth row has a value of 103 in the top-left corner and a value of 105 in the top-right corner. Arrows point from the numbers 100, 101, 103, 105, 109, and 111 to the corresponding parts of the table.

Binary value $b_K b_2 b_1 b_0$	Sequence of Functions performed
0	$f_1(x)$ $f_2(x)$ \vdots $f_n(x)$
100	101
103	105
K	$u_1(x)$ $u_2(x)$ \vdots $u_w(x)$
110	109
111	

FIG. 6

117

118

Binary value $b_e b_2 b_1 b_0$	Total number of times functions performed (N_T)
1	→ 17
2	→ 13
3	→ 25
4	→ 16
⋮	⋮
B_z	→ N_y

FIG. 7

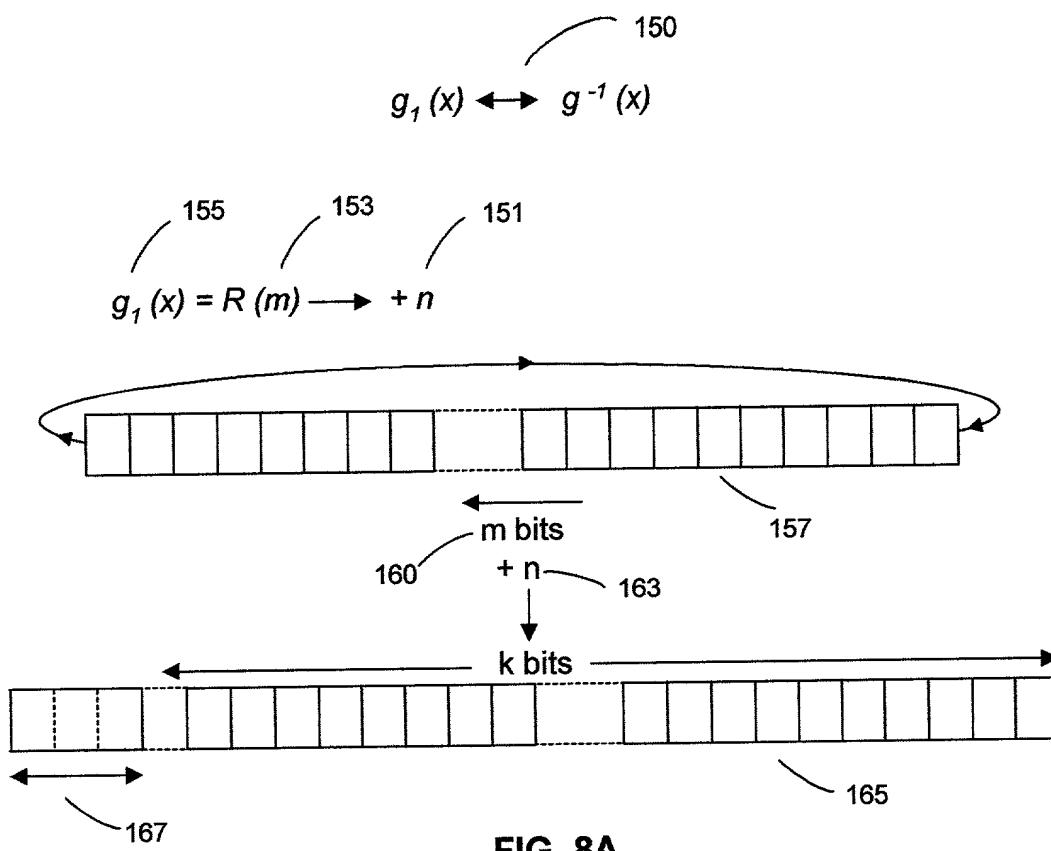


FIG. 8A

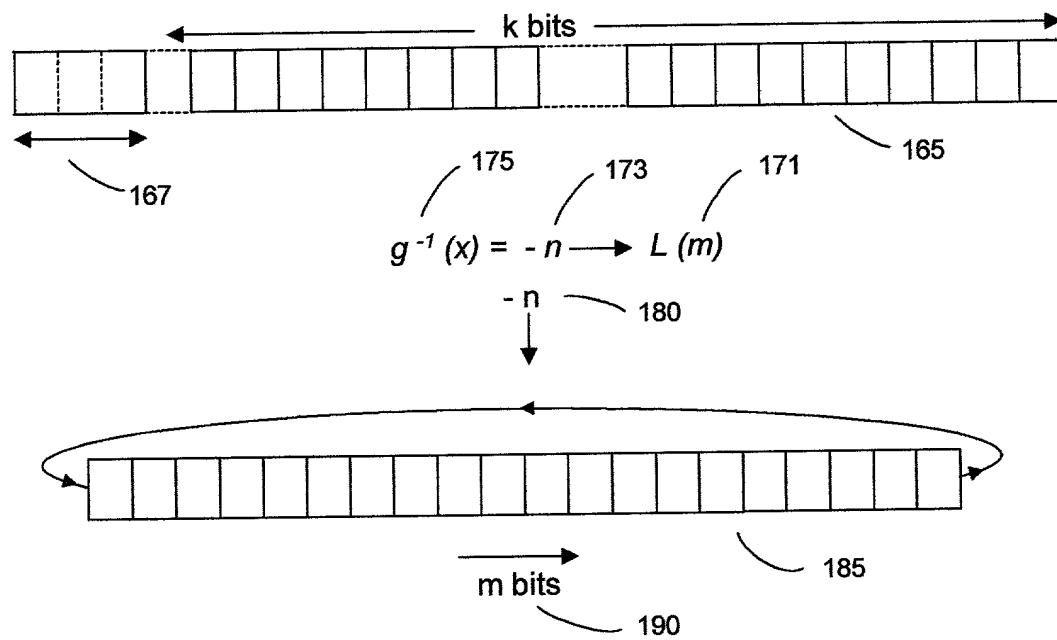


FIG. 8B

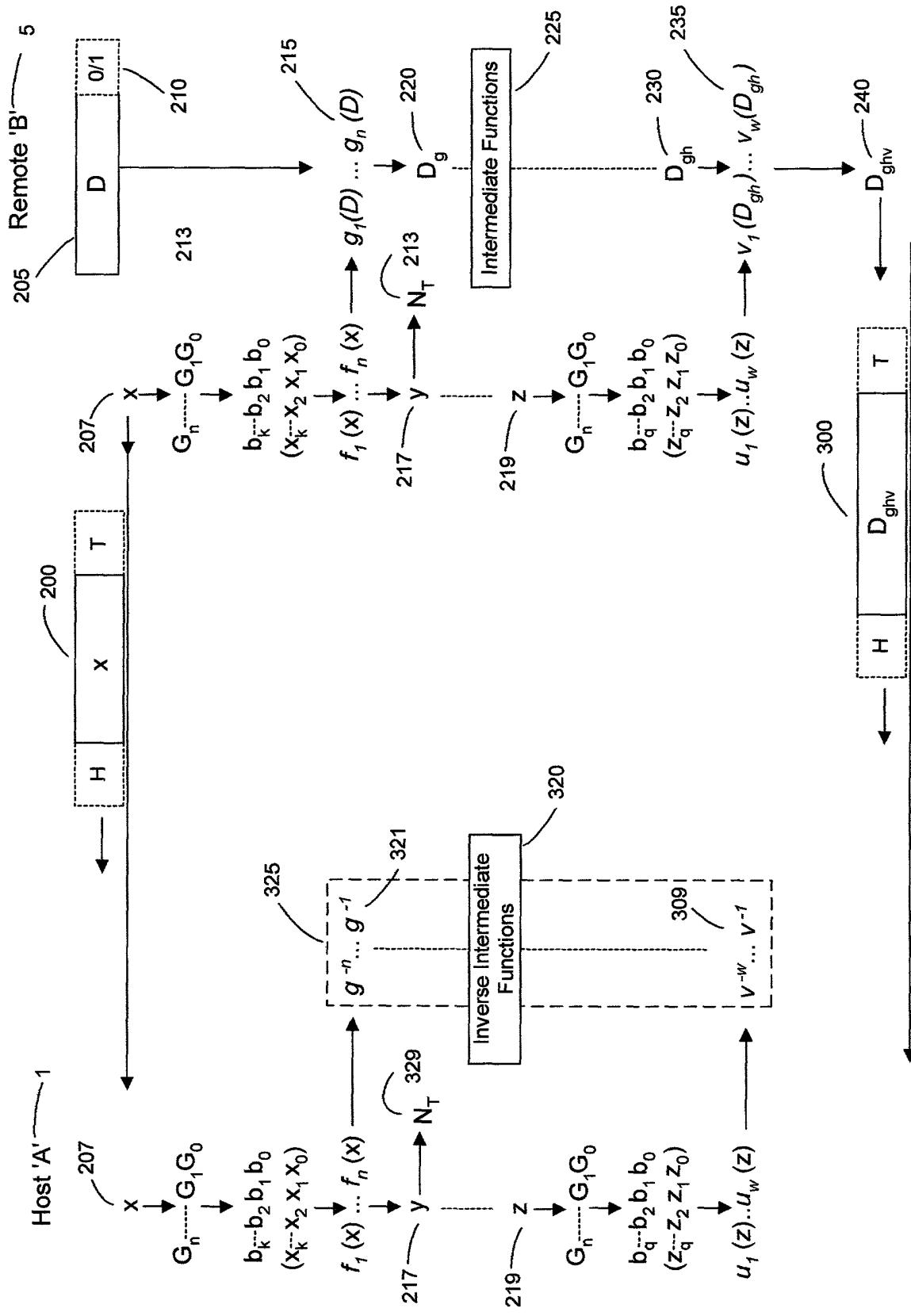


FIG. 9

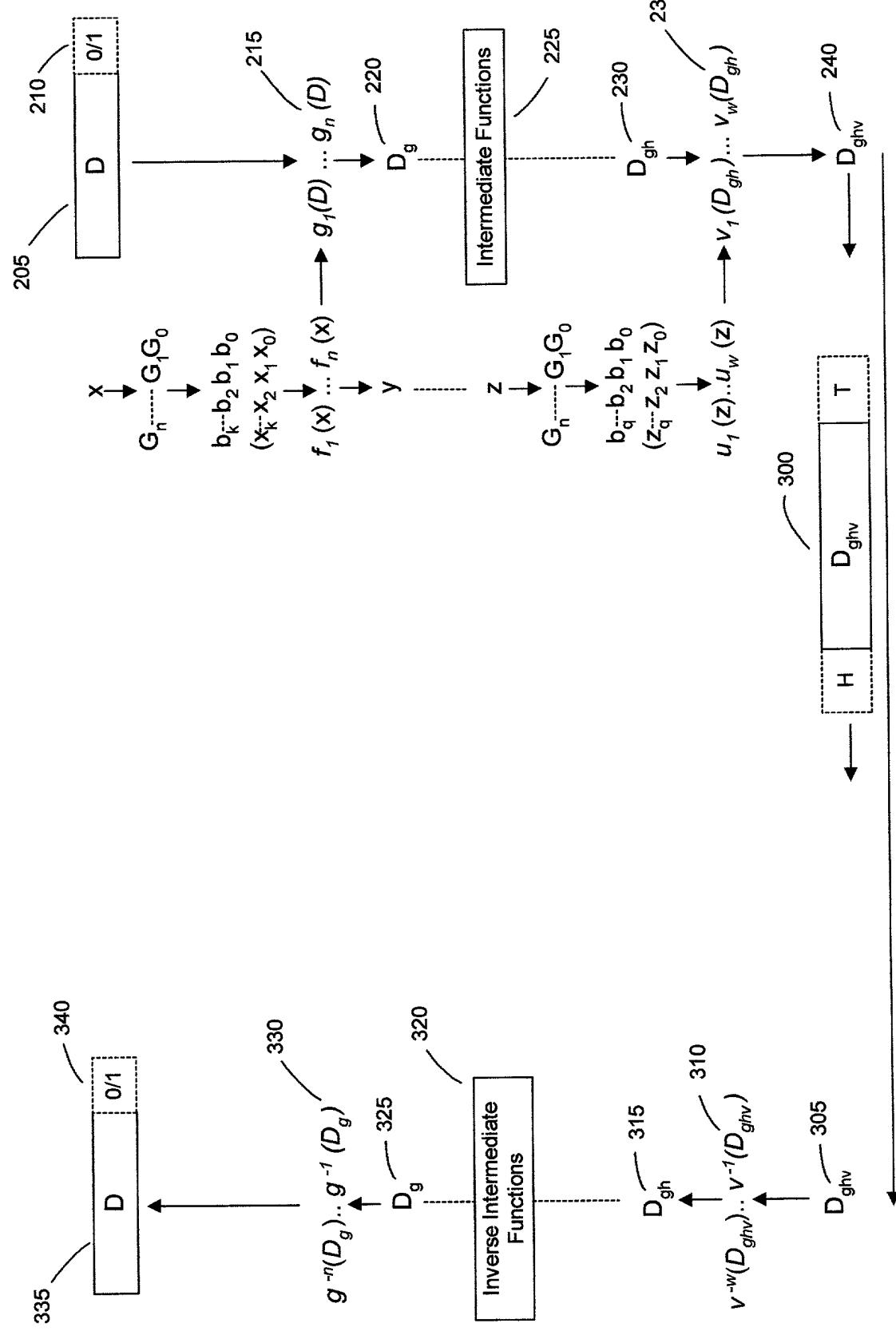


FIG. 10

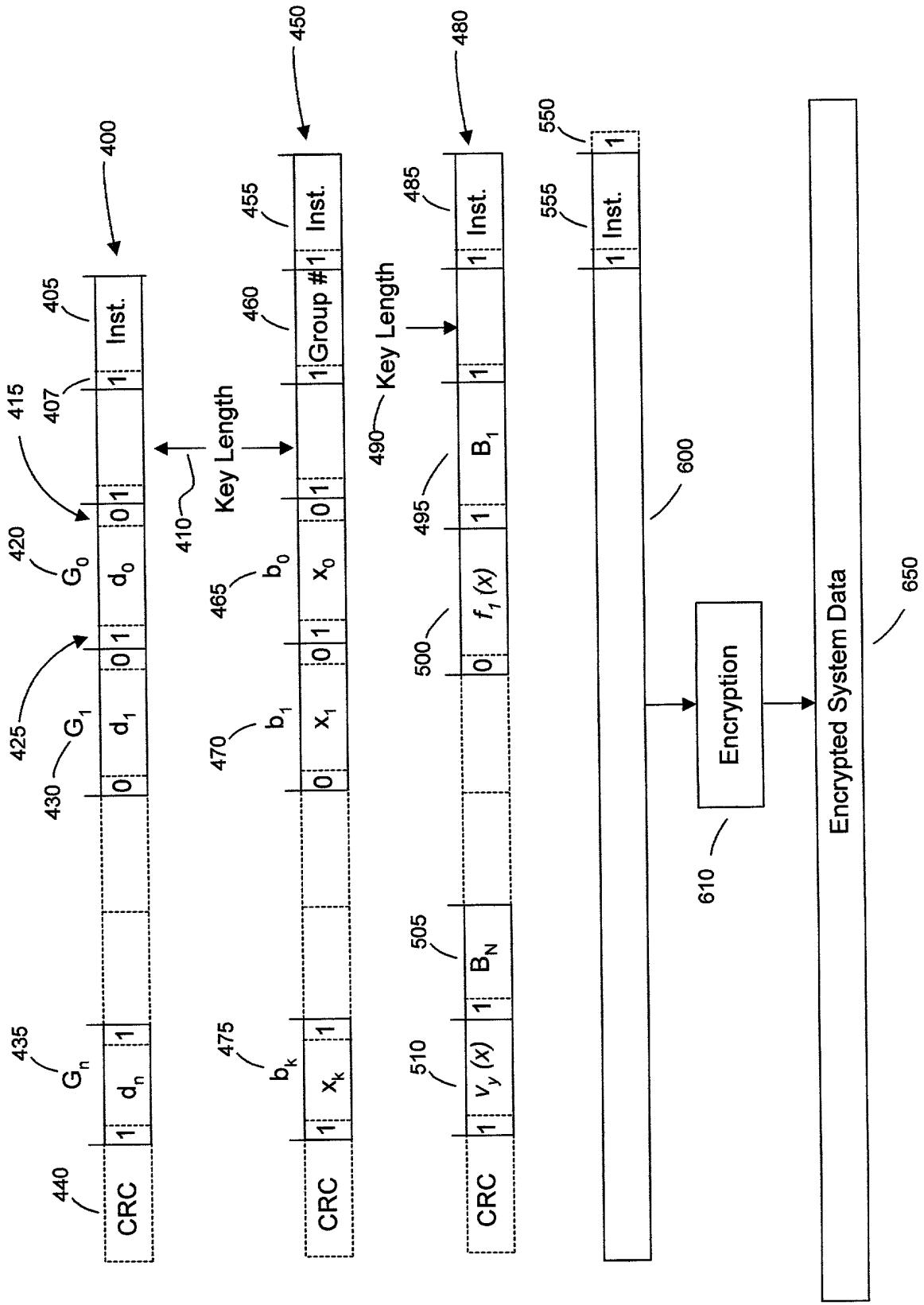


FIG. 11

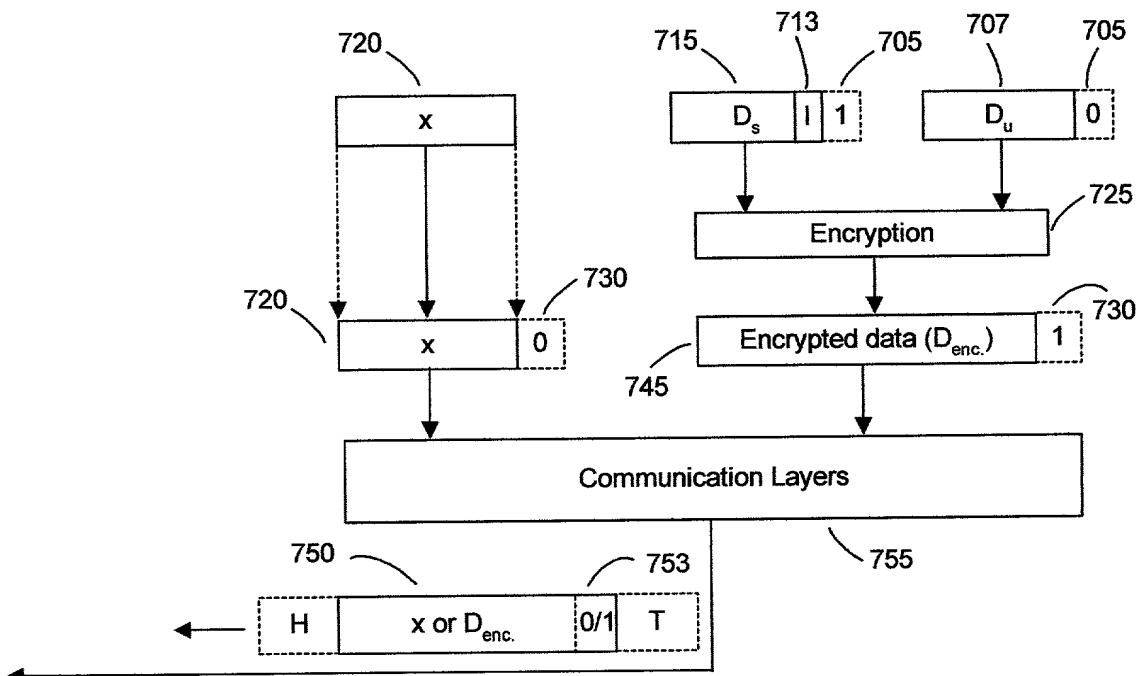


FIG. 12A

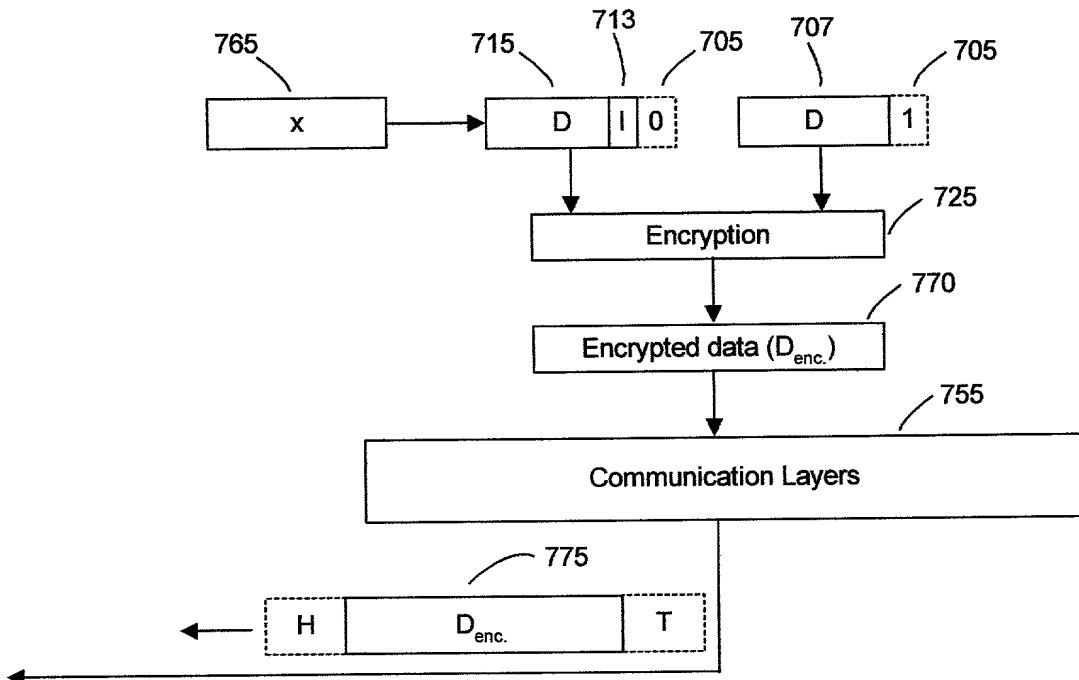


FIG. 12B

FIG. 13

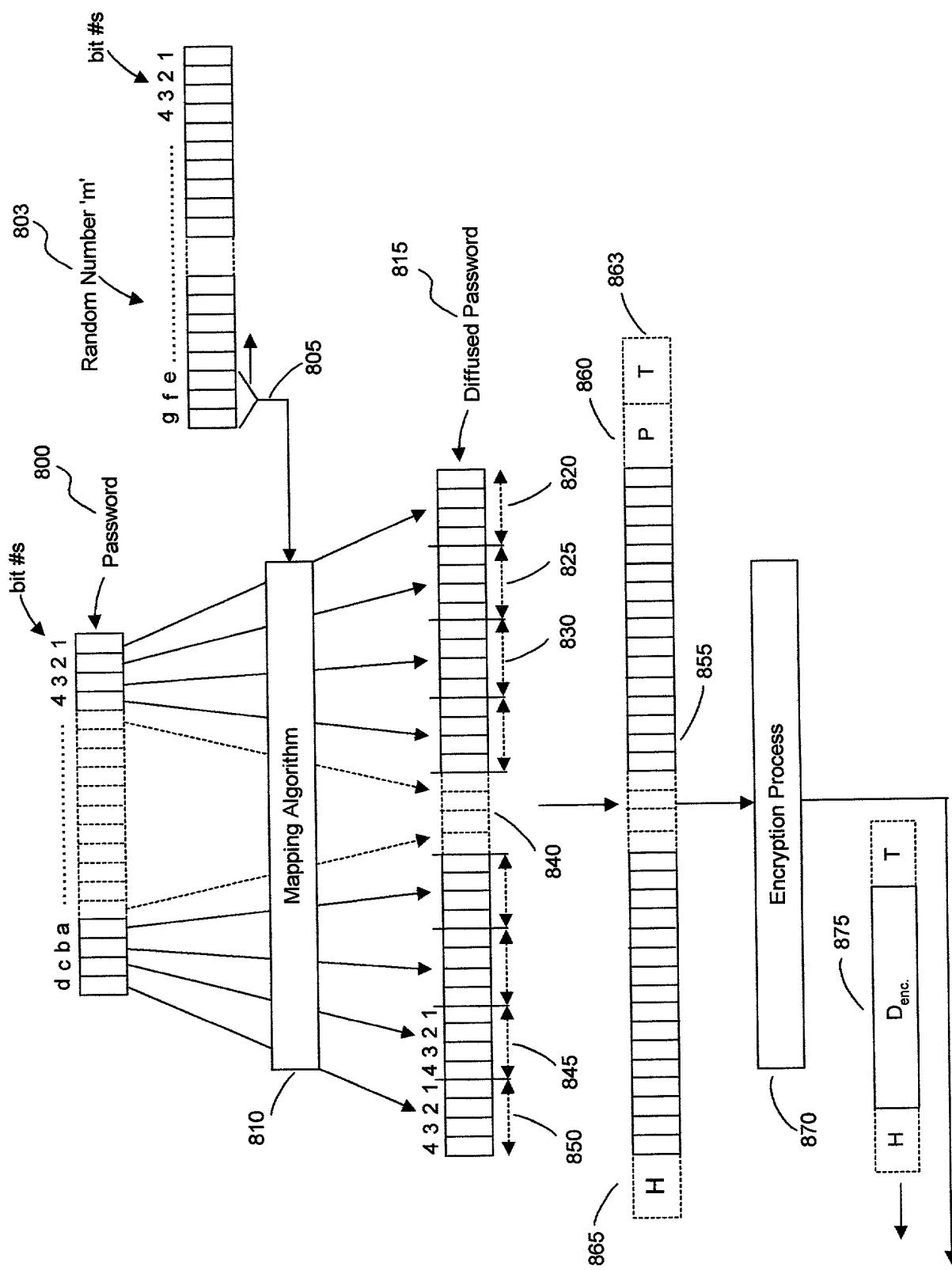


FIG. 14

Current bits positions in the Random number 'z'				Mapped position of the 'k' bit in the 4-bit nibble				
				bit #s	4	3	2	1
w = 0	0	0	v	k	x	x	x	
	0	1	u	x	k	x	x	
	1	0		x	x	k	x	
	1	1		x	x	x	k	
w = 1	0	0	v	k	x	x	x	
	0	1	u	k	j	x	x	
	1	0		k	j	i	x	
	1	1		k	j	i	h	